ABSTRACT OF THE DISCLOSURE

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An immunogenic composition capable of producing a respiratory syncytial (RS) virus specific immune response in a host immunized therewith comprises purified, inactivated RS virus which is substantially free from noncellular and serum components and which is infectious, non-immunopotentiating, immunogenic and protective. The virus is grown on a vaccine quality cell line and harvested virus is purified under non-denaturing conditions to be substantially free from cellular and serum components. The purified RS virus is inactivated β -propiolactone, non-ionic a detergent, particularly n-octyl- α -D-glucopyranoside and n-octyl- β -Dglucopyranoside, or ascorbic acid. The immunogenic composition may be formulated as a vaccine for in vivo administration to a human host. The immunogenic composition also may be used in diagnostic applications.